型\_\_\_

# SITE <u>Elliet Shorting Pack</u> 10\* <u>mon 980968333</u> BREAK \_13. | OTHER \_-2/-88

### APR 21 1988

Ms Susan L L Kroencke 7507 Crescent Drive Raytown, Missouri 64138



Dear Ms Kroencke

Enclosed are analytical data on surface soil samples collected by a contractor to the Environmental Protection Agency (EPA) from your property and surrounding properties. These data are provided to the property owners, for their information, as required by the Comprehensive Environmental Response, Compensation and Liability Act ("Superfund"), as amended by the Superfund Amendments and Reauthorization Act

The EPA has been monitoring the cleanup at the Elliott Shooting Park, where surface soils had been found to contain lead as a result of the deposition of lead shot. The EPA had received information that, in years past, the shooting park may have been larger than it is now. The purpose of this sampling was to determine if the properties surrounding Elliott Shooting Park in your neighborhood were contaminated with lead as a result of lead shot deposition.

The enclosed analytical data indicate no above background lead contamination of offsite soils (Lead is a natural constituent of many soils at nontoxic levels commonly referred to as "background" ) Sample NOP5B004 was collected from surface soils on your property. The available data indicate that the properties surrounding the shooting park do not contain lead in toxic or above background concentrations.

The samples collected for EPA were also analyzed for other metals, including arsenic In our review of these data we noted that several soil samples contained above background levels of (Background for arsenic in soils is approximately 5-20 arsenic parts per million, "ppm" ) However, sample NOPL5B004, collected from your property, contained only 22 0 ppm arsenic, barely above the detection limit of 20 ppm Although some of the soil samples collected from your neighborhood were reported to contain above background concentrations of arsenic, we do not believe the concentrations of arsenic reported pose an unacceptable threat to We have consulted with the Federal Agency for human health Toxic Substances and Disease Registry (ATSDR) and have been advised by ATSDR that environmental cleanups of arseniccontaminated sites have accepted higher levels of arsenic in surface soils than the highest level reported in these samples (230 ppm)

PBAF SCOM DCRAWFORD Vm x679 Crawford's Disk #2 epasdt3
RAWFORD SKOWRONSKI WURFZ RITTER ALDERMAN BRAECKEL SMITH MORBY
SCOM ATSDR PBAF SIGL TOPE CNSL SCOM SPFD

WHO PBAF SIGN PBAF SIGN SPFD

TOPE CNSL SCOM SPFD

We have also reviewed the existing data on the Elliott Shooting Park and relevant literature regarding the presence of arsenic in lead shot The available data and literature indicate that the shooting park and lead shot are probably not the source of the above background concentrations of arsenic reported in A more probable source of the arsenic would be past uses of arsenic compounds in the area as pesticides or In the past arsenic compounds have been used for weed herbicides control, on fruit trees and to treat wood fence posts there are no arsenic compounds approved for use as herbicides or pesticides by EPA Any pesticide-related concentrations of arsenic in environmental samples would therefore probably be the result of past applications Arsenic is environmentally persistent and may be found in the environment many years after is has last been used

Thank you for your cooperation in allowing EPA to collect samples from your property. In summary, EPA does not feel that the reported levels of arsenic or lead found in the offsite soil samples pose an unacceptable threat to health or the environment However, if you have any additional questions please contact me at 236-2856. If you have any questions about health-related matters, you may also contact the ATSDR Regional Health Advisors, Ed Skowronksi or Dave Parker, at 236-2856.

Sincerely yours,

David V Crawford Remedial Project Manager Waste Management Division Superfund Compliance

encl analytical data on NOP5B

cc William Dexter, Vice-President, Boatman's Raytown Bank Mary Erio, Burns & McDonnell Keith Schardein, Missouri Department of Natural Resources Gary Lynn, Chairman Raytown Zoning & Planning Commission Gene Yoekum, Director Raytown Public Works

bcc Gerhardt Braeckel, CNSL
Rowena Michaels, PBAF
Steve Wurtz, PBAF
Ron Ritter, CIGL
Paul Doherty, ENSV SINV
Jerry McKinney, ENSV LABO
Russ Krohn, Tetra Tech
Jill Biesma, Jacobs Engineering
Ed Skowronski, ATSDR
Larry Sheridan, WATR



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION 7** 25 FUNSTON ROAD KANSAS CITY KANSAS 66115

MAR 1 4 1988

SUPERFUND BRANCH

MEMORANUI	<u>.</u>
SUBJECT	Data Transmittal for Activity # NOP5B Site Description <u>Elliott Shooting Park</u>
FROM	Robert D Kleopfer, Ph D Chief, Laboratory Branch, ENSV
TO	Robert L Morby Chief, Superfund Branch WSTM
	ATTN
Atta	ached is the data transmittal for the above referenced site
This show	uld be considered a Partial or <a>Complete data transmittal</a>
(complete	es transmittal of) If you have any questions
or commen	nts, please contact Dee Simmons at 236-3881

Attachments

Data File CC

#### EPA Region VII

#### Data Qualification Codes

- U Compound was not detected
- M Compound was qualitatively identified, however, quantitative value is less than contract required detection limits (CLP data), or value is less than limit of quantitation (EPA data)
- J Compound was qualitatively identified, however, compound failed to meet all QA criteria and, therefore, is only an estimated value
- I Analysis attempted, but no results can be reported
- 0 Sample lost or not analyzed
- L Value known to be higher than value reported
- NA I Sample was not analyzed for this compound

### Codes for Flash Point Data

- L The sample did not ignite or "flash" This is the highest temperature at which the sample was tested. It is possible that the material may be ignitable at higher temperatures
- K The sample did ignite or "flash" at the lowest temperature tested. This is usually the ambient temperature at the time of the test. It is possible that the material may be ignitable at even lower temperatures.

# FIELD SHEET US ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Location Raytown MO	Site Code
Collected YR 88 MO <u>이</u> Day <u>20</u>	Time 1413 Leader Nobile
Sample Number NOP5B002	SMO #
Sample Media (circle one) SOIL DUST RINSATE SEDIMENT	WATER OTHER
Sample Split (circle one) YES	NO
Sample Container Tag Color Pres	ervative Analysis Requested
1-8 oz jar	Total Lead
Depth <u>0-2"</u> Pan #	Aliquots //O
Samplers Nobile	
- <del> </del>	<del></del>
<del></del>	
COMMENTS OF STEED I	DEDCOMMET
COMMENTS OF FIELD E	
Site Description 15 feet inpule be	ark fence
Address 7514 Maple	e Lane
Due to mall size of y	and samuel satter
Set out in L slupe	The strape parties with
	IBM-PC

### U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Site Number Location Raytown MO Site Code						
Collected YR 88 MO <u>Ol</u> Day <u>20</u> Time <u>1340</u> Leader Nobile  Sample Number NOP5B003 SMO #						
Sample Media (circle one) SOIL, DUST, RINSATE, SEDIMENT WATER, OTHER						
Sample Split (circle one) YES NO						
Sample Container Tag Color Preservative Analysis Requested						
1-8 oz jar Total Lead  Depth O 2" Pan # Aliquots 10  Samplers Nob.le						
COMMENTS OF FIELD PERSONNEL						
Site Description Sample taken 15 feet maide the back fence Address 7525 Arlington						

# FIELD SHEET US ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Location Raytown MO	Site Number Site Code
Collected YR 88 MO Ol Day 20 Sample Number NOP5B004	Time <u>1305</u> Leader Nobile SMO #
Sample Media (circle one) SOIL DUST, RINSATE, SEDIMENT, Sample Split (circle one) YES (	WATER, OTHER
Sample Container Tag Color Pres	ervative Analysis Requested
1-8 oz jar	Total Lead (
Depth <u>0-2"</u> Pan #	Aliquots <u>                                     </u>
Samplers Nob, K	
COMMENTS OF FIELD I	PERSONNEL
Site Description Samples Taken Address 7507 (	
	·

IBM-PC

# FIELD SHEET U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Location Raytown MO	Site Number Site Code					
Collected YR 88 MO <u>Ol</u> Day <u>20</u> Sample Number NOP5B005	Time 1252 Leader Nobile SMO #					
Sample Media (circle one) (SOIL) DUST, RINSATE, SEDIMENT, Sample Split (circle one) YES						
Sample Container Tag Color Pres	servative Analysis Requested					
1-8 oz jar	Total Lead					
Depth <u>0 - 2"</u> Pan # Samplers <u>Nob</u> le	Aliquots <u></u>					
COMMENTS OF FIELD PERSONNEL						
site Description Sample taken Address 7509						

IBM-PC

# FIELD SHEET U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Location Raytown MO	Site Code					
Collected YR 88 MO <u>Cr</u> Day <u>Ro</u> Ti Sample Number NOP5B006D	me <u>/252</u> Leader Nobile SMO #					
Sample Media (circle one) SOIL, DUST, RINSATE SEDIMENT, W Sample Split (circle one) YES N						
Sample Container Tag Color Preser						
1-8 oz jar	Total Lead					
Depth <u>C-R"</u> Pan # Samplers <u>Nabile</u>	Aliquots <u>JO</u>					
COMMENTS OF FIELD PERSONNEL						
Site Description Taken along buplicate of	ack fence line NOPSB005					

# FIELD SHEET U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Location Raytown MO	Site Number Site Code					
Collected YR 88 MO 01 Day 20	Time 1357 Leader Nobile					
Sample Number NOP5B007	SMO #					
Sample Media (circle one) (SOIL) DUST, RINSATE, SEDIMENT	WATER OTHER					
Sample Split (circle one) YES (	NO NO					
oumple opile (dilota dile)						
Sample Container Tag Color Pres	ervative Analysis Requested					
1-8 oz jar	Total Lead					
0.44						
Depth <u>0-2''</u> Pan #	_ Aliquots <u>//</u>					
Samplers Nobile						
COMMENTS OF FIELD PERSONNEL						
Site Description 15 feet inside &	Pack Jence					
Address 75	27 Cresent Court					

# US ENVIRONMENTAL PROTECTION AGENCY, REGION VII ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Location Raytown MO	Site Number Site Code						
Collected YR 88 MO <u>Ol</u> Day <u>20</u> Sample Number NOP5B008	Time 1500 Leader Nobile						
Sample Number Not Shoot  Sample Media (circle one)  SOIL DUST RINSATE, SEDIMENT  Sample Split (circle one) YES	<del></del>						
Sample Container Tag Color Pres	servative Analysis Requested						
1-8 oz jar  Depth <u>0-2"</u> Pan #  Samplers <u>Nobile</u>	Total Lead  Aliquots ## Dws						
COMMENTS OF FIELD PERSONNEL							
Site Description Backgroun  (ON Slope below- Sumple collected	cometery) along fence						

### ANALYSIS TYPE TOTAL METALS

TITLE ELLIOTTS SHOOTING FARK LAP EFA REGION VII SAMPLE FREE \_GAM\_ ANALYST/ENTRY GLM REVIEWER.

MATRIX. SEDIMENT UNITS MG/NG
METHOD 2001877 B CASE
M REVIEWER. \_\_\_\_ DATE 03/08/8

03/08/88

60 DATA FILE GM1

		NDF5B002	NOF 5B003	NOF5B004	NOF 5B005
SILVER	MG/NG	2 0U	2 0U	2 OU	2 08
ALUMINUM	MG/KG	13000 0	11000 0	11500_0	12000 0
ARSENIC	MG/KG	20 OU	20 OU	(6 22 )	190 0
PARIUM	MG/FG	180 0	190 0	213 0	190 0
PEF/LLIUM	MG/kG	1 00	1 QU	1 00	1 OU
CADMIUM	MG/KG	1 OU	1 OU	1 OU	1 OU
COBALT	MG/NG	9 0	10 0	93	10 0
CHROMIUM	MG/NG	<b>35</b> 0	13 0	12 0	13 0
COPFER	MG/NG	18 0	15 0	18 0	15 0
IFON	MG/NG	17000 0	15000.0	16000 0	16000 0
MANGANESE	MG/NG	770 0	840 0	740 0	910 0
MOLYPDENUM	MG/NG	98	79	8 4	8 8
NICKEL	MG/KG	17 0	16 0	18.0	19 0
LEAD	MG/NG	36 0	32 0	(46 0)	88 0
ANTIMONY	MG/FG	10 00	10.00	10 00	10 <b>0</b> U
SELENIUM	MG/kG	20 00	20.00	20 OU	20 OU
MUINATIT	MG/NG	N/A	N/A	N/A	N/A
THALLIUM	MG/NG	DO 00	60 OU	40 OU	60 OU
VANADIUM	MG/NG	31 0	29 0	29 0	28 0
ZINC	MG 'NG	86 0	140 0	93 0	110 0
CALCIUM	MG/IG	4700 0	4900 0	4600 0	3600 0
MAGNESIUM	MG/NG	2700 0	2200 0	2400 0	2500 0
SODIUM	MG/16	750 O	760 0	640 0	683 0
FOTASSIUM	MG/NG	1600 0	1600 0	1400 0	1500 0

í

### ANALYSIS TYFE' TOTAL METALS

TITLE ELLIOTTS SHOOTING FARK LAB EFA REGION VII SAMPLE FREF \_ GLM \_ ANALYST/ENTRY GLM REVIEWER

MATRIX SEDIMENT UNITS MG/KG METHOD 2001577 A CASE

M2D DATE 03/08/88

SUM DATA FILE GM1

		NOFSB	006D	NOF 51	1007	NOF	5B008
SILVER	MG/NG	2	٥υ	2	οU	2	0U
ALUMINUM	MG/NG	13000	0	14000	0	10000	0
ARSENIC	MG/KG	230	• 0	100	0	20	οu
BAFIUM	MG/K <b>G</b>	170	0	200	0	240	0
PERYLLIUM	MG/NG	1	QU	1	٥U	1	Oυ
CADMIUM	MG/NG	1	οu	1	٥u	1	OU
COBALT	MG/NG	7	9	16	0	8	8
CHROMIUM	MG/FG	13	0	15	0	9	4
COFFEF	MG/NG	17	0	20	0	16	0
IRON	MG/NG	16000	0	18000	0	21000	0
MANGANESE	MG/NG	620	0	1200	0	1900	0
HOLYBDENUM	MG/KG	9	6	10	0	8	2
NICKEL	MG/KG	16	Q	22	0	16	0
LEAD	MG/KG	100	0	34.	0	30	0
ANTIKONY	MG/FG	10	0U	10	Oυ	10	០ប
SELENIUM	MG/KG	20	OU	20	θU	20	OU
TITANIUM	MG/KG		A/A		I/A	ì	A/A
THALLIUM	MG/KG	60	οu	60.	٥u	60	OU
MUIDAMAV	MG/KG	29	0	33	0	28	0
ZINC	MG/NG	120	0	97	0	130	0
CALCIUM	MG/NG	3800	0	4600	0	6300	0
MAGNESIUM	MG/NG	2500	0	2800	0	2000	0
SODIUM	MG/NG	710	0	730	0	850	0
POTASSIUM	MG/KG	1500	0	1600	0	970	0